

Report No.: GZCR240900104601 EMC-TRF-01 Rev 1.1

> 1 of 129 Page: FCC ID: SAK-ESP32S3

TEST REPORT

GZCR2409001046DS **Application No.:**

Applicant: Walter Kidde Portable Equipment Inc.

Address of Applicant: 1016 Corporate Park Drive, Mebane, NC, 27302, USA

Manufacturer: Walter Kidde Portable Equipment Inc.

Address of Manufacturer: 1016 Corporate Park Drive, Mebane, NC, 27302, USA

Factory: Dongguan Fyrnetics Co., Ltd.

Address of Factory: No.1 Rongwen Road, Dongguan Changan, Guangdong, China 523842

Product Name: 2.4 GHz Wi-Fi (802.11 b/g/n) and Bluetooth® 5 (LE) module

Model No.: ESP32-S3-WROOM-1U-N8

Trade Mark: Kidde

47 CFR Part 15, Subpart C 15.247 Standard(s):

Date of Receipt: 2024-09-05

2024-09-13 to 2024-09-26 **Date of Test:**

2024-12-09 Date of Issue:

Pass* **Test Result:**

aday Liu



Manager

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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| | Revision Record | | | | | |
|--------------------------------|------------------|------------|----------|--|--|--|
| Version Report No. Date Remark | | | | | | |
| 01 | GZCR240900104601 | 2024-12-09 | Original | | | |
| | | | | | | |

| Authorized for issue by | | |
|-------------------------|-------------------------|--|
| | Jim Zi | |
| | Jim Li/Project Engineer | |
| | vius cui | |
| | Vico Cui/Reviewer | |



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Test Summary

| Radio Spectrum Technical Requirement | | | | | | |
|--------------------------------------|-------------------------------------|--------|---|--------|--|--|
| Item | Standard | Method | Requirement | Result | | |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.247 | N/A | 47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4) | Pass | | |

| Radio Spectrum Matter Part | | | | | | | |
|---|-------------------------------------|---|--|--------|--|--|--|
| Item | Standard | Method | Requirement | Result | | | |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 | Pass | | | |
| Radiated Emissions which fall in the restricted bands | | ANSI C63.10 (2013) Section 11.12 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass | | | |
| Radiated Spurious Emissions Below 1GHz | | ANSI C63.10 (2013) Section 6.4,6.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass | | | |
| Radiated Spurious Emissions Above 1GHz | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.6 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass | | | |
| Maximum Conducted Output Power | | ANSI C63.10 (2013) Section 11.9.2 | 47 CFR Part 15, Subpart C 15.247(b)(3) | Pass | | | |
| Minimum 6dB Bandwidth | | ANSI C63.10 (2013) Section 11.8.1 | 47 CFR Part 15, Subpart C 15.247a(2) | Pass | | | |
| Power Spectrum Density | | ANSI C63.10 (2013) Section 11.10.2 | 47 CFR Part 15, Subpart C 15.247(e) | Pass | | | |
| Conducted Band Edges Measurement | | ANSI C63.10 (2013) Section 11.13.3.2 | 47 CFR Part 15, Subpart C 15.247(d) | Pass | | | |
| Conducted Spurious Emissions | | ANSI C63.10 (2013) Section 11.11 | 47 CFR Part 15, Subpart C 15.247(d) | Pass | | | |

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 3.3 V
Cable(s): DC input ports

Test Voltage: AC 120 V, 60 Hz powered by Note Book Computer refer to section 4.2

Antenna Type: Flex-PIFA Antenna

Antenna Gain: 4.4 dBi according to antenna specification

Antenna Number: 1

For BLE

Operation Frequency: 2402MHz to 2480MHz

Modulation Type: GFSK Number of Channels: 40 Channel Spacing: 2MHz

For 2.4GHz Wi-Fi

Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to

2452MHz

Modulation Type: 802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM,

16QAM, QPSK, BPSK)

Number of Channels: 802.11b/g/n(HT20):11;802.11n(HT40):7

Channel Spacing: 5MHz

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|--------------------|--------------|---------------|------------|
| Note Book Computer | LENOVO | ThinkPad T490 | PF1D1MVJ |



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4.3 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|---|--|
| Conducted Emissions at AC Power Line (150kHz-30MHz) | ±3.22dB |
| Radiated Emissions which fall in the restricted bands | ±5.14dB (3m); ±4.90dB (10m);±4.88dB (1GHz-6GHz);±5.06dB (6GHz-18GHz); ±5.30dB (18GHz-40GHz) |
| Radiated Spurious Emissions Below 1GHz | ±3.08dB (9kHz to 150kHz);±3.19dB(150kHz to 30MHz);±5.14dB (30MHz-1GHz) (3m); ±4.90dB (30MHz-1GHz) (10m) |
| Radiated Spurious Emissions Above 1GHz | ±4.88dB (1GHz-6GHz);±5.06dB (6GHz- 18GHz); ±5.30dB (18GHz-40GHz) |
| Conducted Peak Output Power | ± 0.75dB |
| Minimum 6dB Bandwidth | ± 0.274% |
| Power Spectrum Density | ± 2.84dB |
| Conducted Band Edges Measurement | ± 0.75dB |
| Conducted Spurious Emissions | ± 0.75dB |

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty) or U_{ETSI}(ETSI Uncertainty).

Emission decision rule:

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.



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4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

• ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Equipment List 5

| Conducted Emissions at AC Power Line (150kHz-30MHz) | | | | | | |
|---|-------------------|-------------------|---------------|------------|--------------|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | |
| Coaxial Cable | HangTianXing | 2m | EMC0107 | 2023-08-24 | 2025-08-23 | |
| Shielding Room | ChangZhou ZhongYu | 8m x 3m x 3.8m | EMC0306 | 2022-10-16 | 2025-10-15 | |
| Two-Line V-Network-GZ | Rohde & Schwarz | ENV216 | EMC2135 | 2024-09-02 | 2025-09-01 | |
| EMI Test Receiver (9kHz-3.6GHz) | Rohde & Schwarz | ESR3 | EMC2221 | 2024-05-13 | 2025-05-12 | |
| Test Software E3r | Audix | Ver.6.191211 | GZE100-77 | N/A | N/A | |

| Radiated Emissions which fall in the restricted bands | | | | | | |
|---|--------------------------------|---------------|---------------|------------|--------------|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | |
| 1GHz-26.5 GHz Pre- Amplifier | Agilent | 8449B | EMC0521 | 2023-11-10 | 2024-11-09 | |
| EMI Test Receiver (10Hz-26.5GHz) | Rohde & Schwarz | ESIB26 | EMC0522 | 2024-09-02 | 2025-09-01 | |
| Chamber cable (Above 1GHz) | Scoflex | KMKM-8.0m | EMC0545 | 2024-08-19 | 2026-08-18 | |
| Horn Antenna (1GHz- 18GHz) | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2022-09-23 | 2025-09-22 | |
| Horn Antenna (14- 40GHz) | SCHWARZBECK | BBHA 9170 | EMC2041 | 2023-06-18 | 2026-06-17 | |
| EXA Signal Analyzer (10Hz-44GHz) | Keysight | N9010A | EMC2138 | 2024-08-19 | 2025-08-18 | |
| MXE EMI Receiver (10Hz-8.4GHz) | Keysight | N9038A | EMC2139 | 2023-10-20 | 2024-10-19 | |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2023-12-20 | 2026-12-19 | |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A | |



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| Radiated Spurious Emissions Below 1GHz | | | | | | |
|--|--------------------------|-------------------|---------------|------------|--------------|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | |
| 966 Anechoic Chamber | Shenzhen C.R.T | CRTSGSSAC9 66 | EMC2230 | 2022-04-12 | 2025-04-11 | |
| EMI Test Receiver(1Hz- 8GHz) | Rohde & Schwarz | ESW8 | EMC2229 | 2024-02-19 | 2025-02-18 | |
| Amplifier(9k-1000MHz) | SONOMA | 310 | EMC2237 | 2024-03-22 | 2025-03-21 | |
| TRILOG Broadband Antenna (25M-2GHz) | SCHWRZBECK | VULB 9168 | EMC2238 | 2022-04-20 | 2025-04-19 | |
| Coaxial Cable | Mirco-COAX UTIFLEX ve | LA2-C125- 8000 | EMC2239 | 2023-06-14 | 2025-06-13 | |
| Test Software E3 | Audix | Ver.6.191211 | GZE100-81 | N/A | N/A | |
| Active Loop Antenna- RED | ETS-Lindgren | 6502 | EMC2190 | 2024-04-08 | 2026-04-07 | |

| Radiated Spurious Emissions Above 1GHz | | | | | | |
|--|--------------------------------|---------------|---------------|------------|--------------|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | |
| 1GHz-26.5 GHz Pre- Amplifier | Agilent | 8449B | EMC0521 | 2023-11-10 | 2024-11-09 | |
| EMI Test Receiver (10Hz-26.5GHz) | Rohde & Schwarz | ESIB26 | EMC0522 | 2024-09-02 | 2025-09-01 | |
| Chamber cable (Above 1GHz) | Scoflex | KMKM-8.0m | EMC0545 | 2024-08-19 | 2026-08-18 | |
| Horn Antenna (1GHz- 18GHz) | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2022-09-23 | 2025-09-22 | |
| Horn Antenna (14- 40GHz) | SCHWARZBECK | BBHA 9170 | EMC2041 | 2023-06-18 | 2026-06-17 | |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2023-11-10 | 2024-11-09 | |
| EXA Signal Analyzer (10Hz-44GHz) | Keysight | N9010A | EMC2138 | 2024-08-19 | 2025-08-18 | |
| MXE EMI Receiver (10Hz-8.4GHz) | Keysight | N9038A | EMC2139 | 2023-10-20 | 2024-10-19 | |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2023-12-20 | 2026-12-19 | |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A | |

| RF Conducted Test | | | | | |
|-------------------------------------|--------------|-----------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| MI CABLE | SGS-EMC | 0.8M | EMC2137 | 2023-11-02 | 2025-11-01 |
| 4X4 Power sensor Unit | TST | TSPS2023R | EMC2226 | 2024-08-19 | 2025-08-18 |
| Test Software | TST | V2.0 | GZE100-78 | N/A | N/A |
| EXA Signal Analyzer (10Hz-44GHz) | Keysight | N9010A | EMC2138 | 2024-08-19 | 2025-08-18 |



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| General used equipmen | t | | | | |
|-----------------------|--------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| DMM | Fluke | 73 | EMC0006 | 2024-06-13 | 2025-06-12 |



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 4.4 dBi.

Antenna location: Refer to internal photo.



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Radio Spectrum Matter Test Results 7

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.2

I imit:

| Frequency of emission | Conducted limit (dBμV) | | | | | |
|---|------------------------------------|-----------|--|--|--|--|
| (MHz) | Quasi-peak | Average | | | | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | | | | |
| 0.5-5 | 56 | 46 | | | | |
| 5-30 | 60 | 50 | | | | |
| *Decreases with the logarithm of the frequency. | | | | | | |
| Detector: Peak for pre-scan (9kHz | z resolution bandwidth) 0.15M to 3 | 30MHz | | | | |

7.1.1 E.U.T. Operation

Final test

Operating Environment:

02

Temperature: 24.1 °C Humidity: 53.6 % RH Atmospheric Pressure: 1005 mbar

7.1.2 Test Mode Description Dra asan / Mode

| Final test | Code | Description |
|------------|------|--|
| Final test | 00 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with |

GFSK modulation.

TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in

the report.



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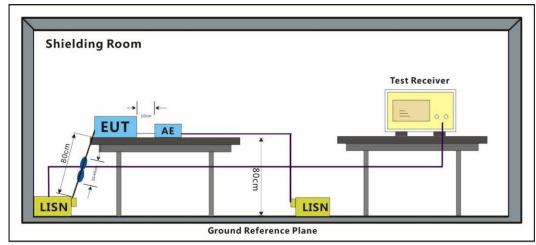


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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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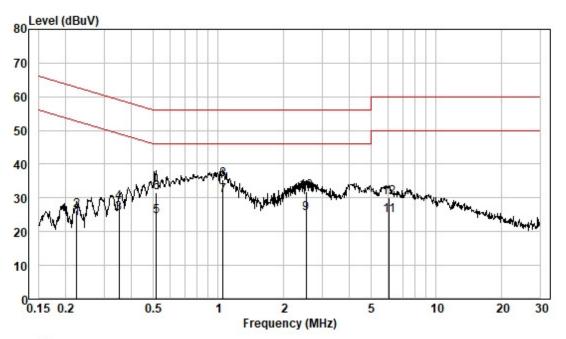
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Test Mode: 00 & 02; Line: Live line



Pol :LINE Mode : Model: Power :

| | Frequenc MHz | Read Level dBuV | Cable Loss dB | LISN Factor dB | Measured Level dBuV | Limit Line dBuV | Over Limit dB | Remark |
|----|-----------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| | | | | | | | | |
| 1 | 0.224 | 14.38 | 0.06 | 9.62 | 24.06 | 52.66 | -28.60 | Average |
| 2 | 0.224 | 16.56 | 0.06 | 9.62 | 26.24 | 62.66 | -36.42 | QP |
| 3 | 0.350 | 15.82 | 0.06 | 9.63 | 25.51 | 48.96 | -23.45 | Average |
| 4 | 0.350 | 19.03 | 0.06 | 9.63 | 28.72 | 58.96 | -30.24 | QP |
| 5 | 0.521 | 14.80 | 0.07 | 9.63 | 24.50 | 46.00 | -21.50 | Average |
| 6 | 0.521 | 21.91 | 0.07 | 9.63 | 31.61 | 56.00 | -24.39 | QP |
| 7 | 1.054 | 21.01 | 0.07 | 9.62 | 30.70 | 46.00 | -15.30 | Average |
| 8 | 1.054 | 25.74 | 0.07 | 9.62 | 35.43 | 56.00 | -20.57 | QP |
| 9 | 2.527 | 15.73 | 0.13 | 9.62 | 25.48 | 46.00 | -20.52 | Average |
| 10 | 2.527 | 22.17 | 0.13 | 9.62 | 31.92 | 56.00 | -24.08 | QP |
| 11 | 6.089 | 15.01 | 0.20 | 9.67 | 24.88 | 50.00 | -25.12 | Average |
| 12 | 6.089 | 20.29 | 0.20 | 9.67 | 30.16 | 60.00 | -29.84 | OP |



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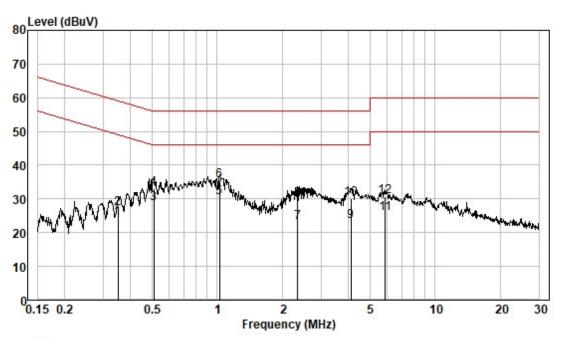


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Test Mode: 00 & 02; Line: Neutral Line



Pol :NEUTRAL

Mode : Model : Power :

| | | Read | Cable | LISN | Measured | Limit | Over | |
|----|----------|-------|-------|--------|----------|-------|--------|---------|
| | Frequenc | Level | Loss | Factor | Level | Line | Limit | Remark |
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| | | | | | | | | |
| 1 | 0.350 | 14.51 | 0.06 | 9.54 | 24.11 | 48.96 | -24.85 | Average |
| 2 | 0.350 | 17.55 | 0.06 | 9.54 | 27.15 | 58.96 | -31.81 | QP |
| 3 | 0.513 | 19.11 | 0.07 | 9.55 | 28.73 | 46.00 | -17.27 | Average |
| 4 | 0.513 | 23.34 | 0.07 | 9.55 | 32.96 | 56.00 | -23.04 | QP |
| 5 | 1.027 | 20.93 | 0.07 | 9.55 | 30.55 | 46.00 | -15.45 | Average |
| 6 | 1.027 | 25.89 | 0.07 | 9.55 | 35.51 | 56.00 | -20.49 | QP |
| 7 | 2.334 | 13.37 | 0.13 | 9.54 | 23.04 | 46.00 | -22.96 | Average |
| 8 | 2.334 | 20.02 | 0.13 | 9.54 | 29.69 | 56.00 | -26.31 | QP |
| 9 | 4.114 | 13.63 | 0.17 | 9.56 | 23.36 | 46.00 | -22.64 | Average |
| 10 | 4.114 | 20.53 | 0.17 | 9.56 | 30.26 | 56.00 | -25.74 | QP |
| 11 | 5.898 | 15.88 | 0.19 | 9.57 | 25.64 | 50.00 | -24.36 | Average |
| 12 | 5.898 | 21.02 | 0.19 | 9.57 | 30.78 | 60.00 | -29.22 | QP |



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7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 11.12

Limit:

Test Distance: 3 m

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance(meters) |
|-----------------|-----------------------------------|------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.2.1 E.U.T. Operation

Final test

Operating Environment:

Temperature: 25.3 °C Humidity: 67.3 % RH Atmospheric Pressure: 1005 mbar

7.2.2 Test Mode Description

Pre-scan / Mode Final test Code Description

02

Final test 00 TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with

GFSK modulation.

TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in

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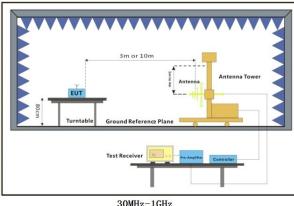
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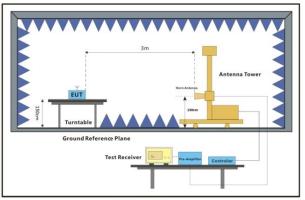


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7.2.3 Test Setup Diagram





Above 1GHz

7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, guasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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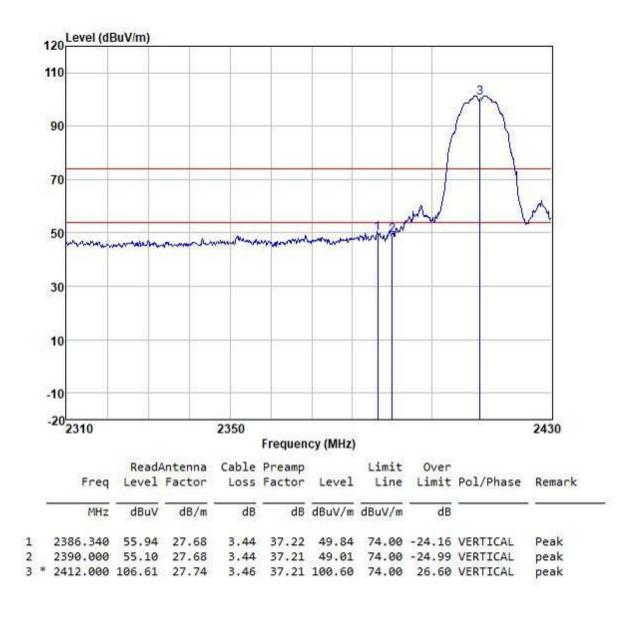
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low





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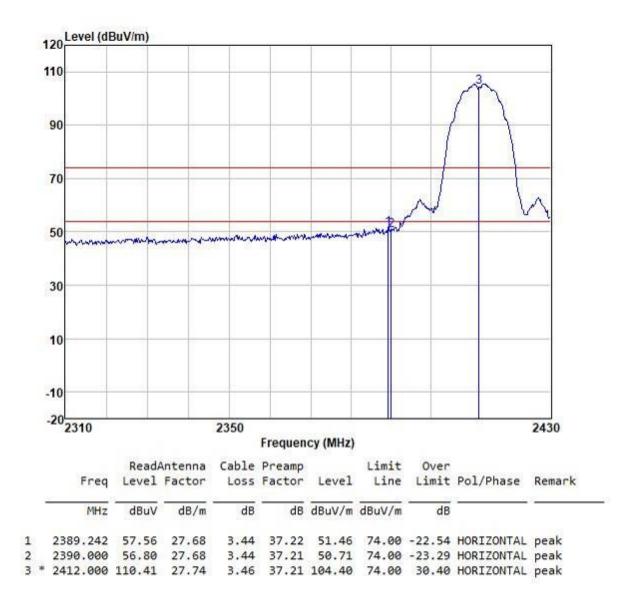
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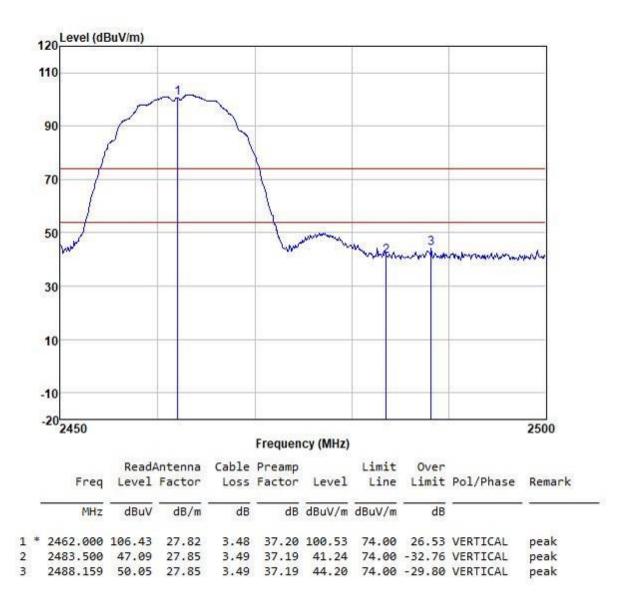
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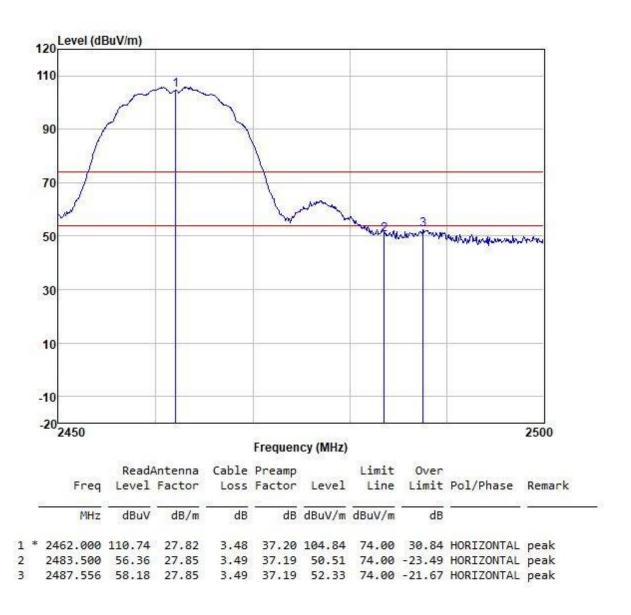
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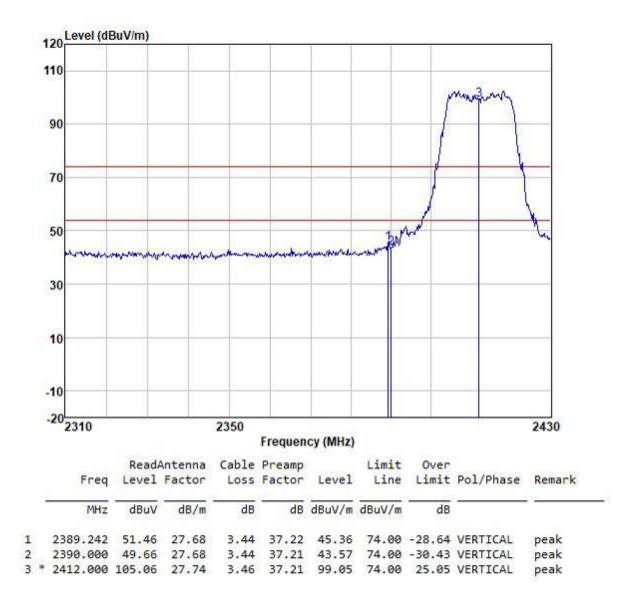
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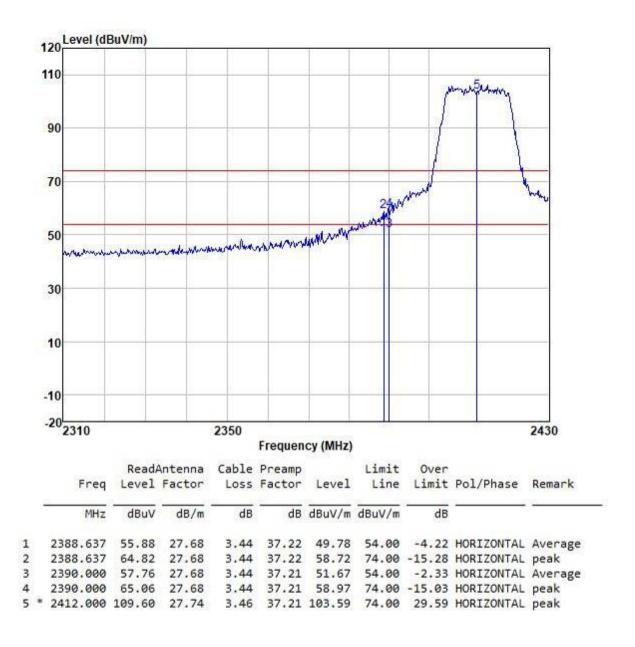
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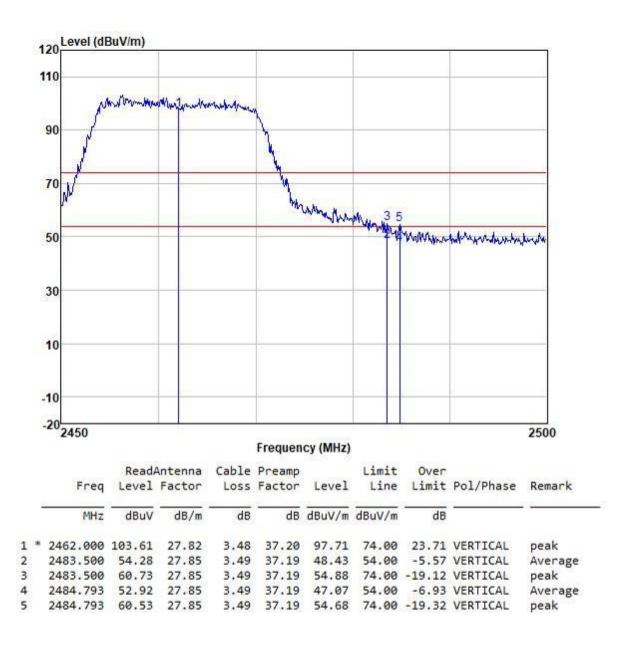
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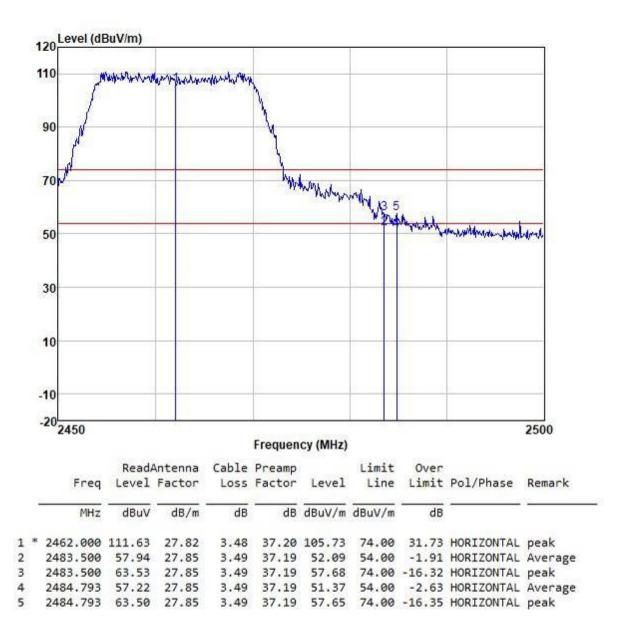


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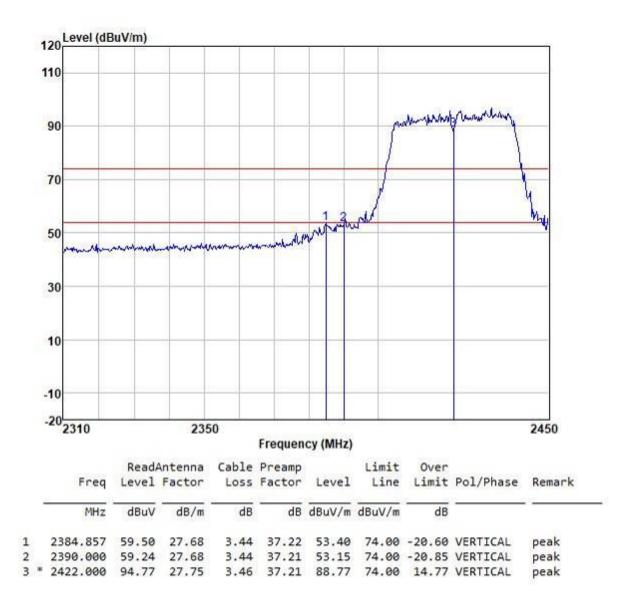
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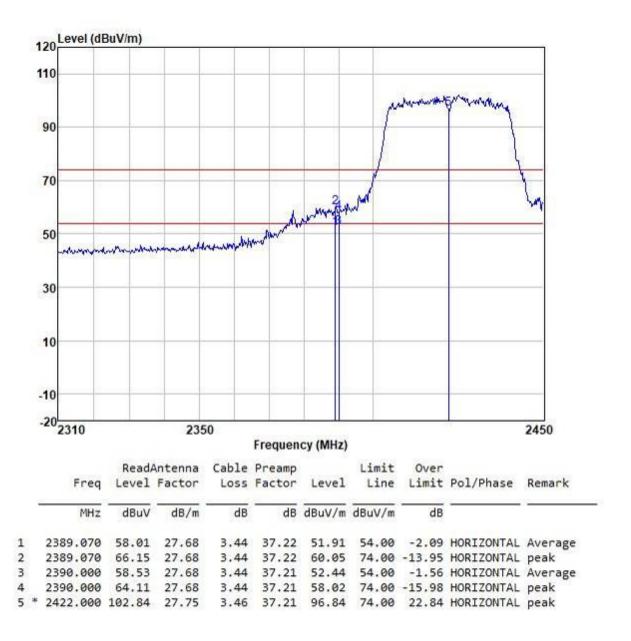


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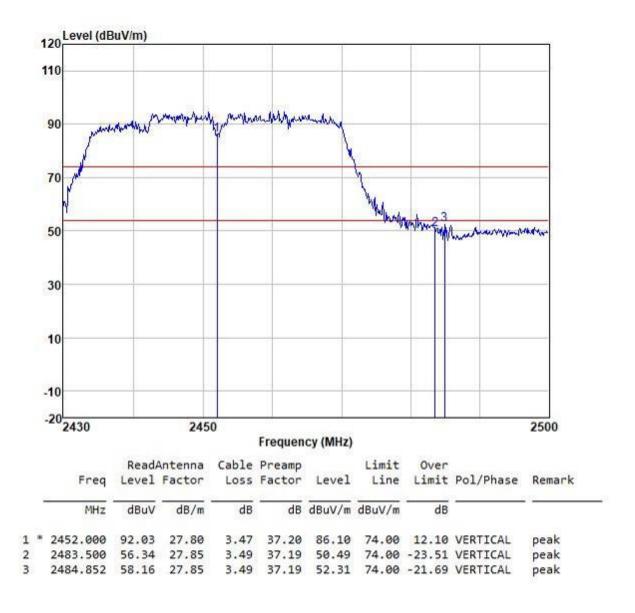
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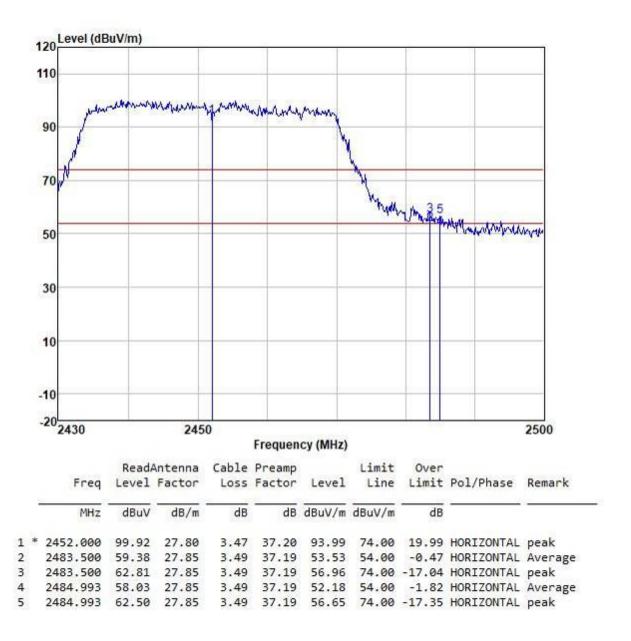
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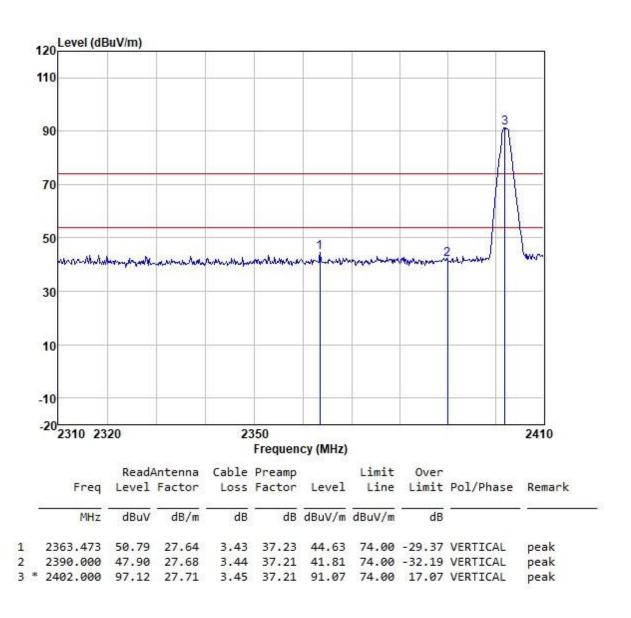
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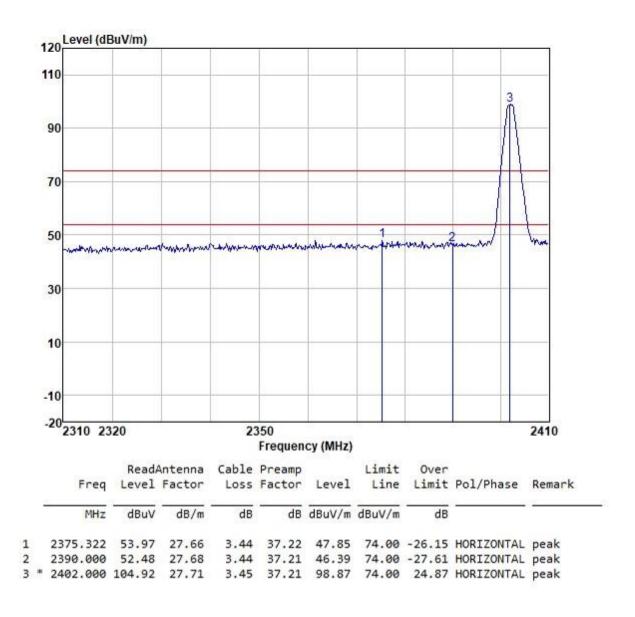
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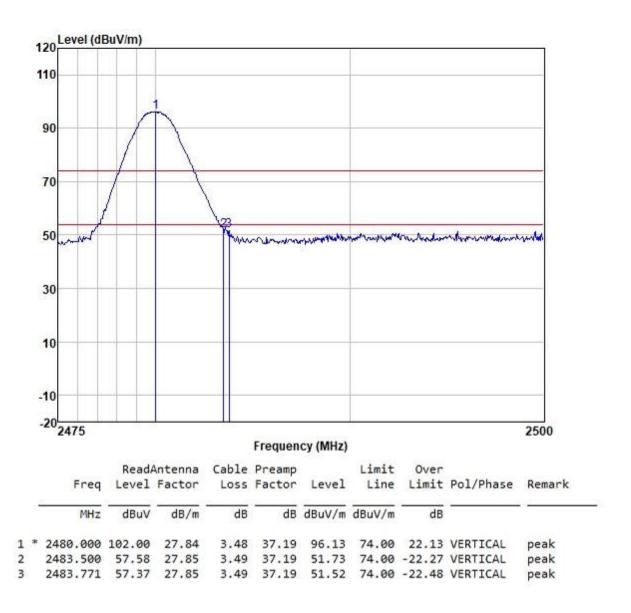
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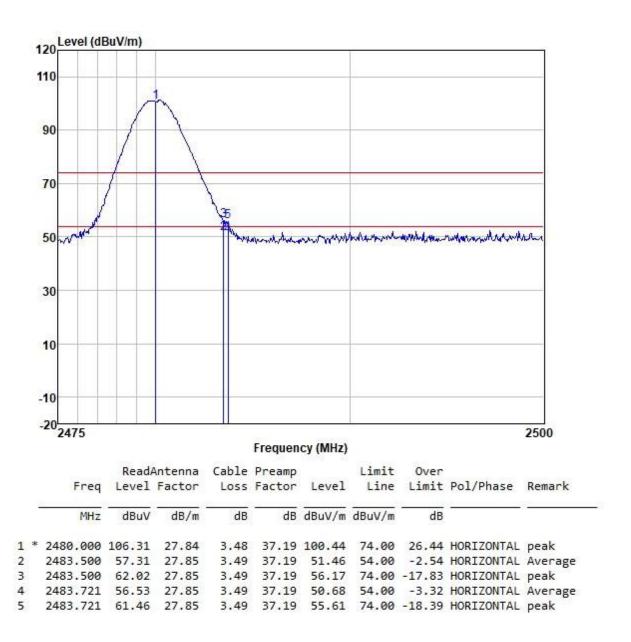
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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High





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7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Limit:

3 m Test Distance:

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance(meters) |
|-----------------|-----------------------------------|------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| 960-1000 | 500 | 3 |

7.3.1 E.U.T. Operation

Final test

Operating Environment:

Temperature: 22.0 °C Humidity: 52.9 % RH Atmospheric Pressure: 1005 mbar

7.3.2 Test Mode Description

Mode Pre-scan / Description Final test Code

02

TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with Final test 00

GFSK modulation.

TX mode Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst

case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in

the report.

检验检测专用意 中国・广东・广州高新技术产业开发区科学城科珠路198号

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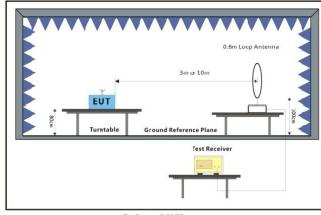


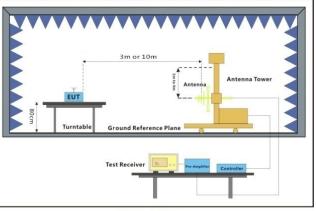
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7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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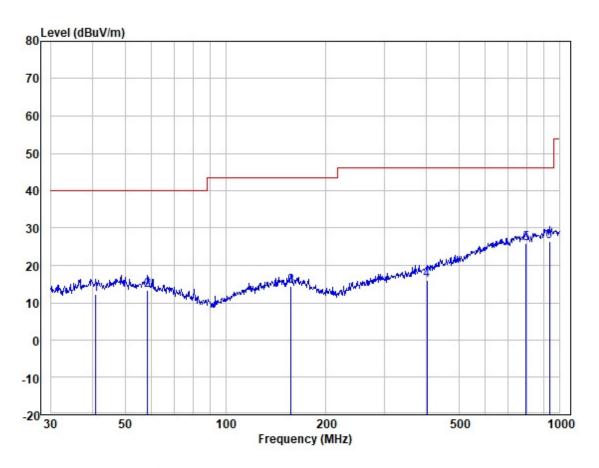
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Test Mode: 00 & 02; Polarity: Horizontal



Site : 966 Chamber

Job Model Power : Test Mode

| | Freq | | | | | Measured Level | | | Pol/ Phase | Remark |
|---|---------|-------|-------|------|-------|-------------------|--------|--------|---------------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | - |
| 1 | 40.845 | 25.67 | 19.16 | 0.35 | 32.87 | 12.31 | 40.00 | -27.69 | VERTICAL | QP |
| 2 | 58.407 | 26.80 | 18.99 | 0.41 | 32.87 | 13.33 | 40.00 | -26.67 | VERTICAL | QP |
| 3 | 157.007 | 27.27 | 19.18 | 0.69 | 32.83 | 14.31 | 43.52 | -29.21 | VERTICAL | QP |
| 4 | 400.432 | 26.24 | 21.60 | 1.16 | 32.94 | 16.06 | 46.02 | -29.96 | VERTICAL | QP |
| 5 | 793.396 | 28.43 | 28.32 | 1.66 | 32.43 | 25.98 | 46.02 | -20.04 | VERTICAL | QP |
| 6 | 932.272 | 26.62 | 29.77 | 1.78 | 31.80 | 26.37 | 46.02 | -19.65 | VERTICAL | QP |



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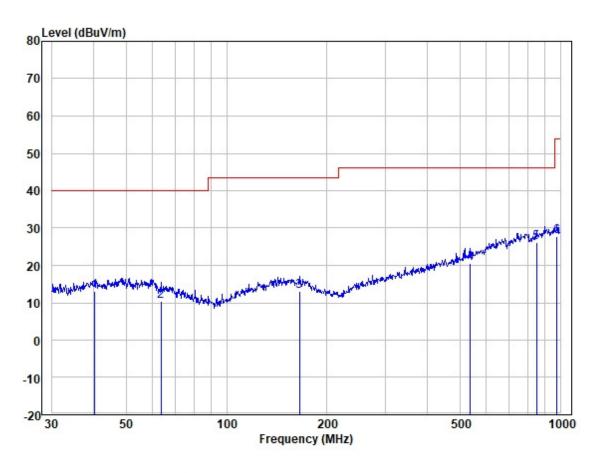


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Test Mode: 00 & 02; Polarity: Vertical



Site : 966 Chamber

Job Model Power : Test Mode

| | Freq | | | | | Measured Level | | | | Remark |
|---|---------|-------|-------|------|-------|-------------------|--------|--------|----------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | S |
| 1 | 40.276 | 26.38 | 19.16 | 0.35 | 32.87 | 13.02 | 40.00 | -26.98 | VERTICAL | QP |
| 2 | 63.759 | 24.76 | 18.14 | 0.43 | 32.86 | 10.47 | 40.00 | -29.53 | VERTICAL | QP |
| 3 | 165.487 | 26.19 | 18.99 | 0.71 | 32.83 | 13.06 | 43.52 | -30.46 | VERTICAL | QP |
| 4 | 537.589 | 27.81 | 24.29 | 1.33 | 32.96 | 20.47 | 46.02 | -25.55 | VERTICAL | QP |
| 5 | 848.056 | 27.86 | 28.87 | 1.70 | 32.34 | 26.09 | 46.02 | -19.93 | VERTICAL | QP |
| 6 | 975.753 | 27.66 | 29.89 | 1.83 | 31.68 | 27.70 | 53.98 | -26.28 | VERTICAL | QP |



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7.4 Radiated Spurious Emissions Above 1GHz

47 CFR Part 15, Subpart C 15.205 & 15.209 Test Requirement

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance(meters) | |
|-----------------|-----------------------------------|------------------------------|--|
| Above 1000 | 500 | 3 | |

7.4.1 E.U.T. Operation

Operating Environment:

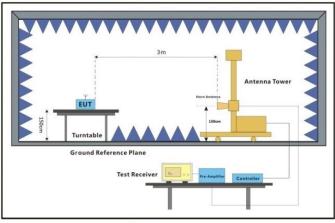
Temperature: 25.3 °C Humidity: 67.3 % RH Atmospheric Pressure: 1005 mbar

7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 00 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| | | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11b; data |
| Final test | 02 | rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst |

case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



Above 1GHz



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7.4.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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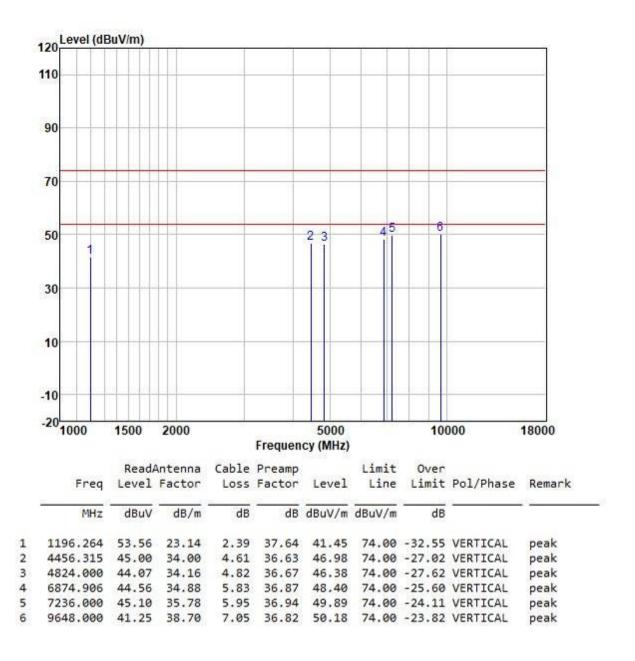
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low





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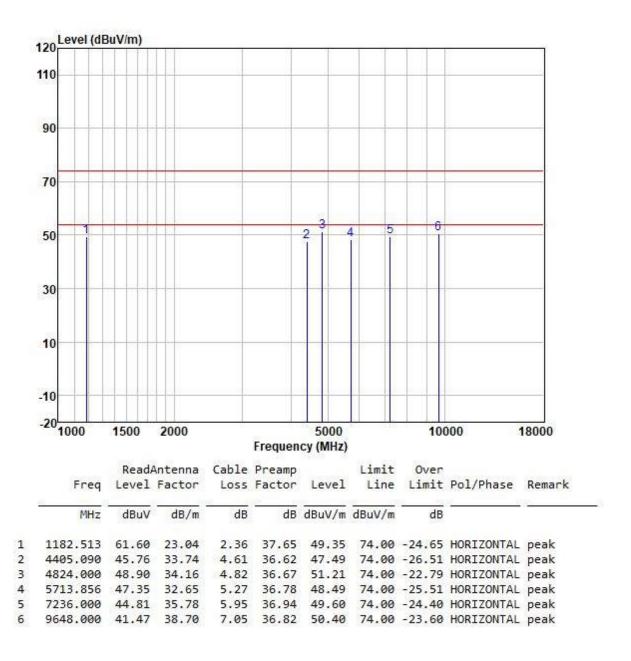


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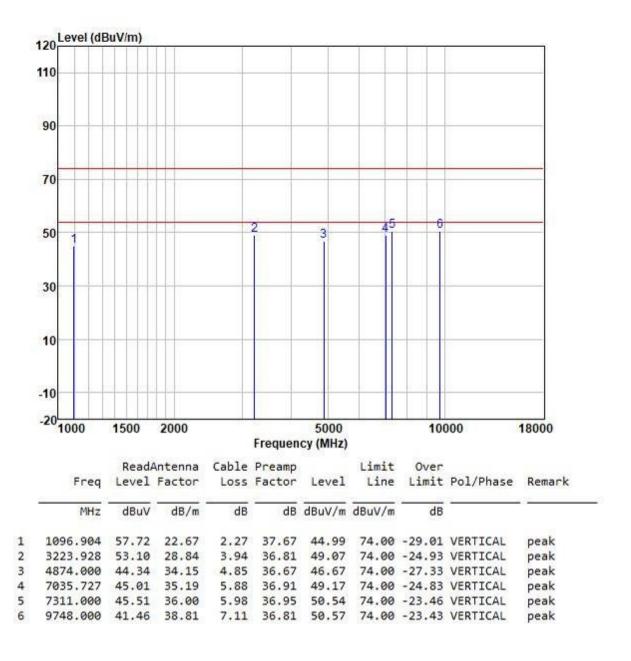


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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle





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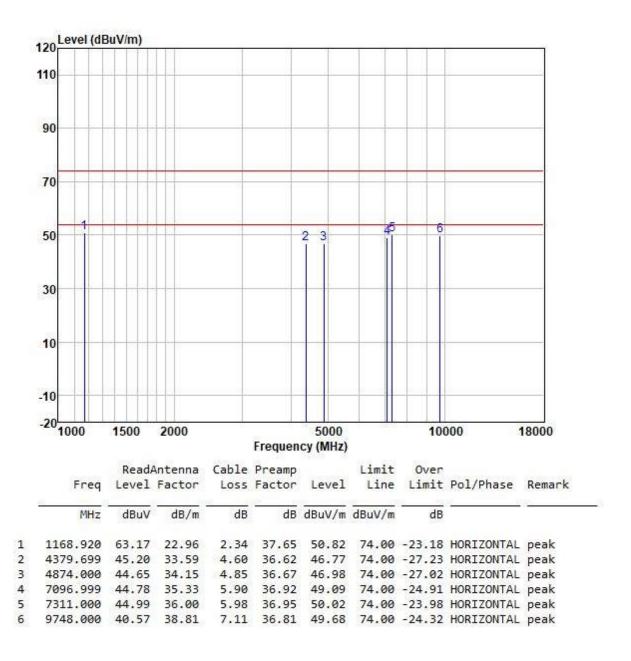


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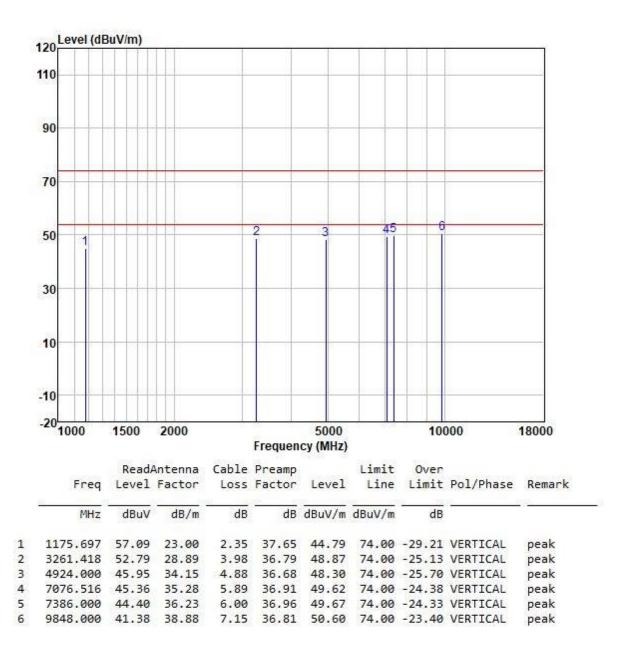
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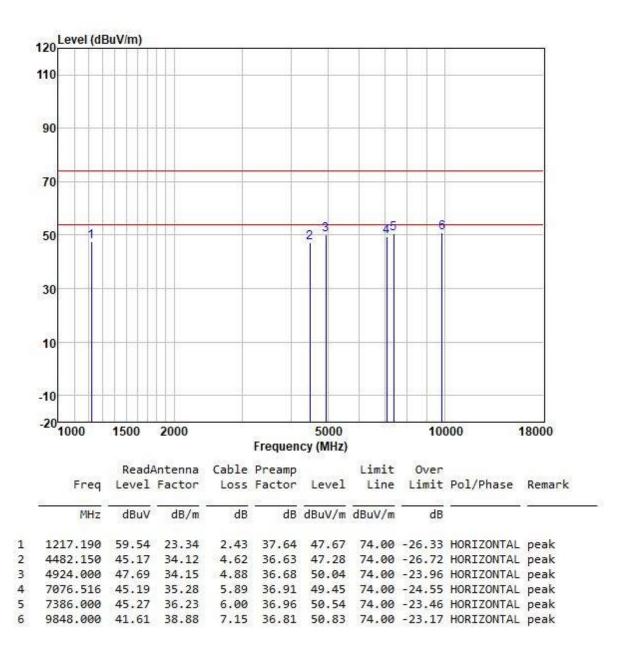


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High





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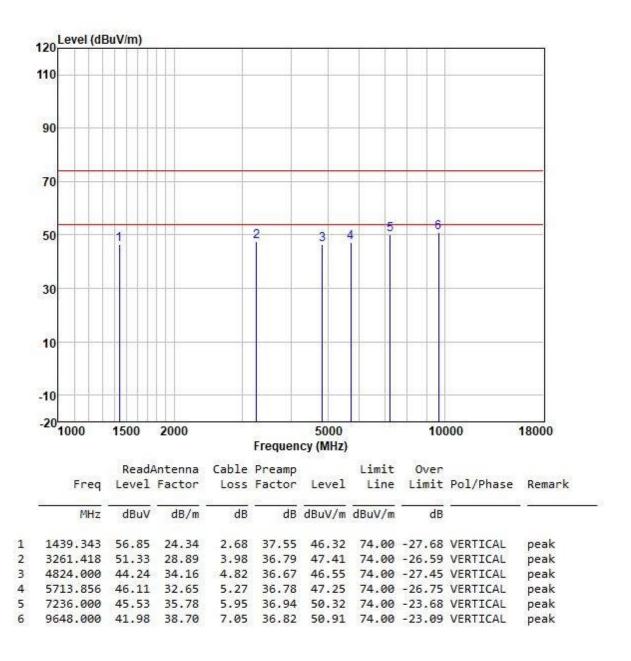
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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low





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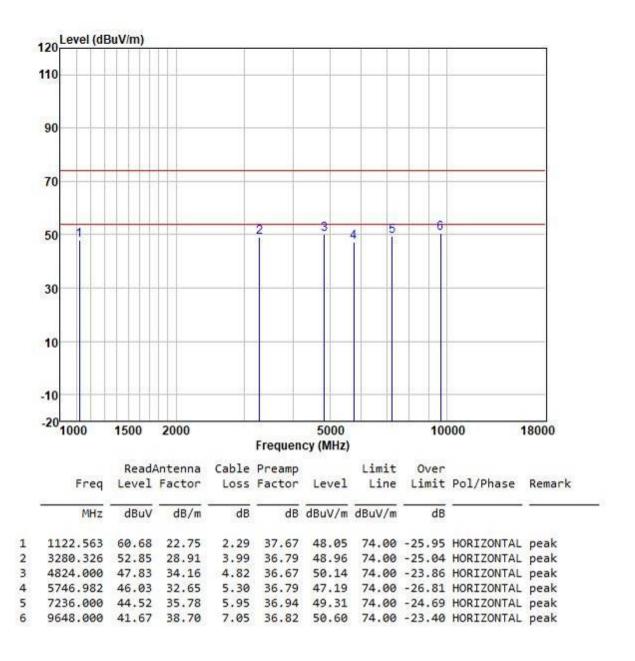
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low





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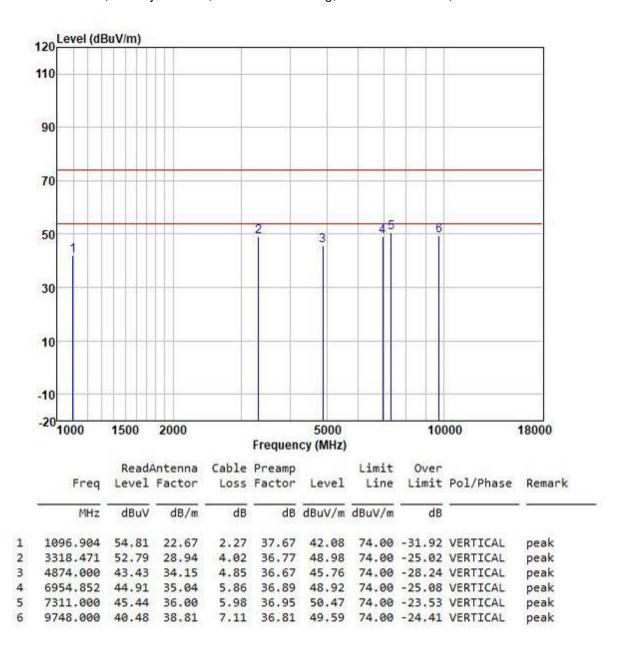
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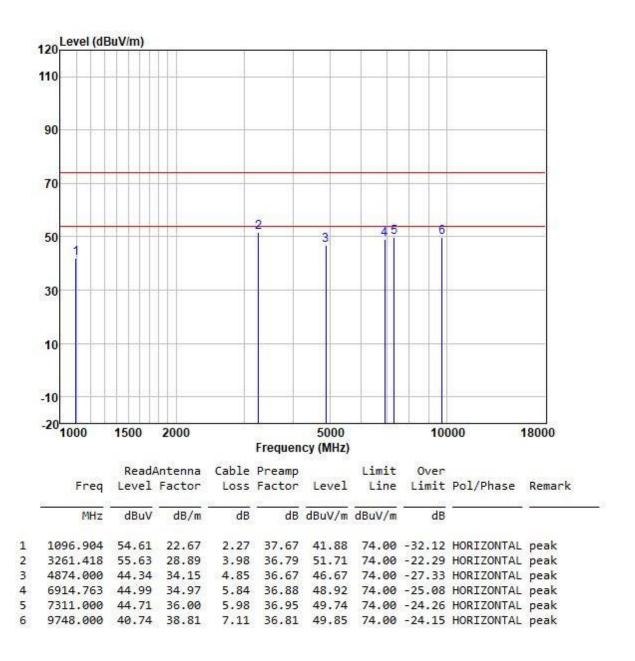
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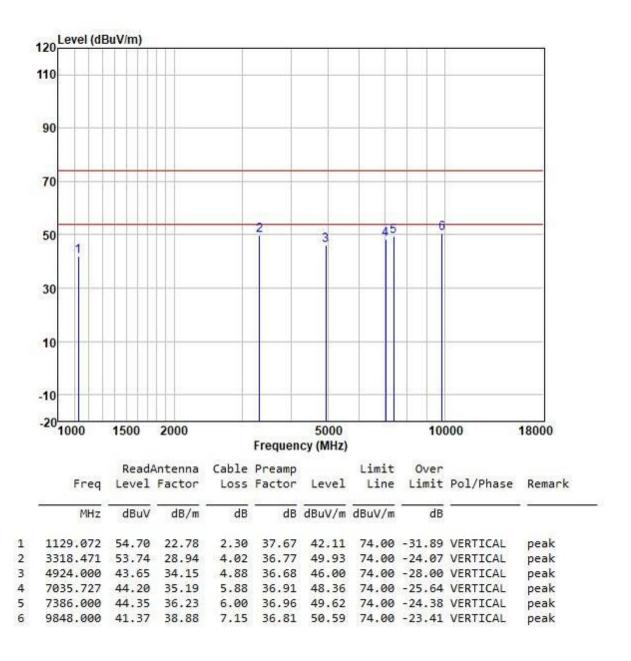
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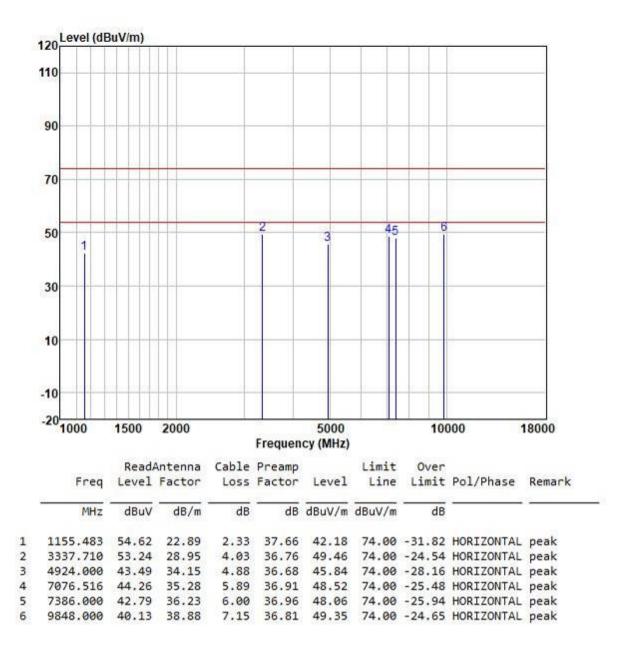
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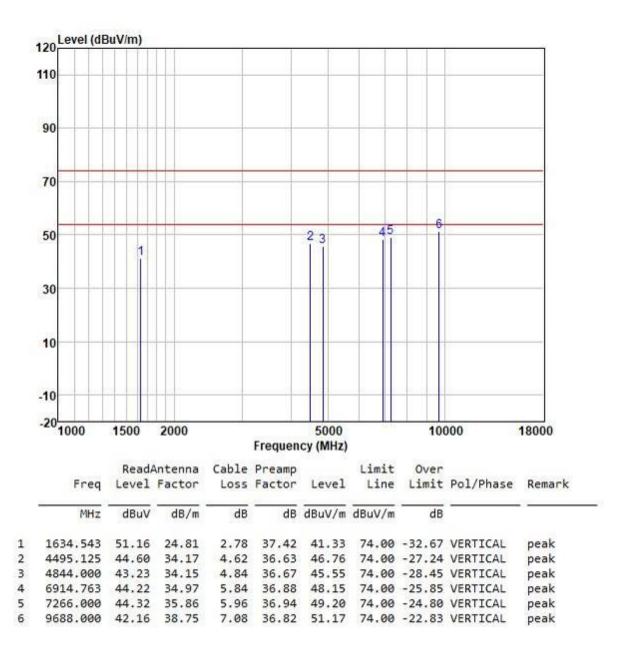
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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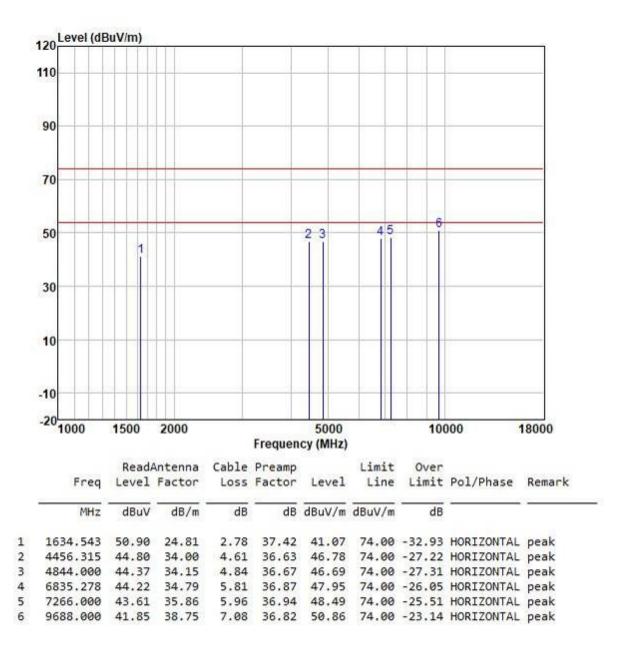


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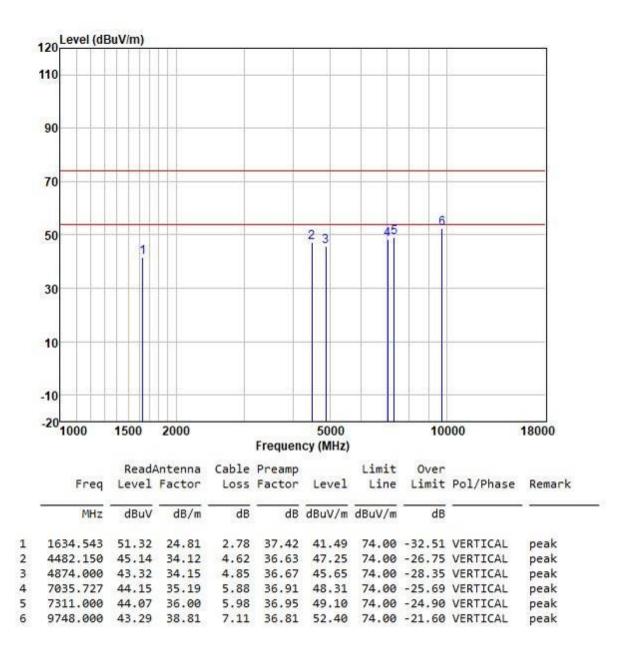
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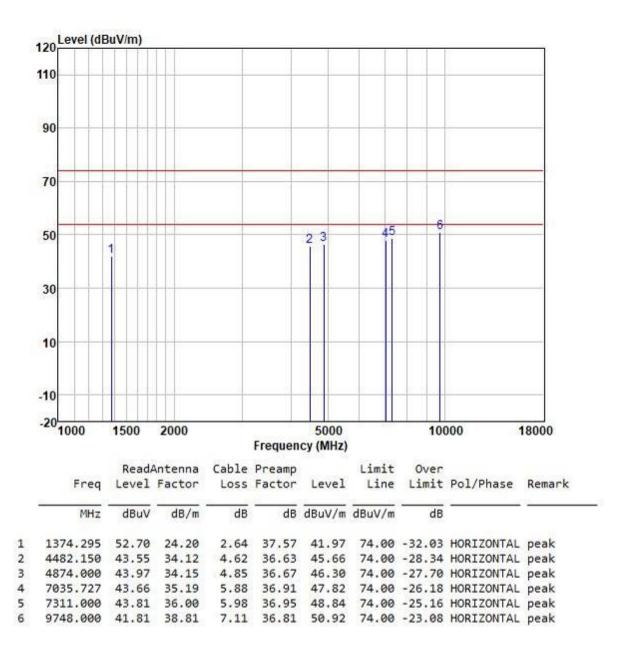


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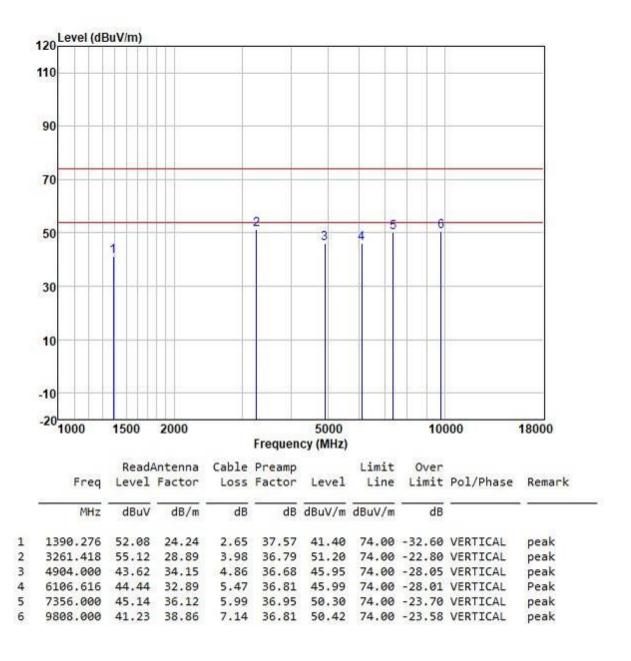
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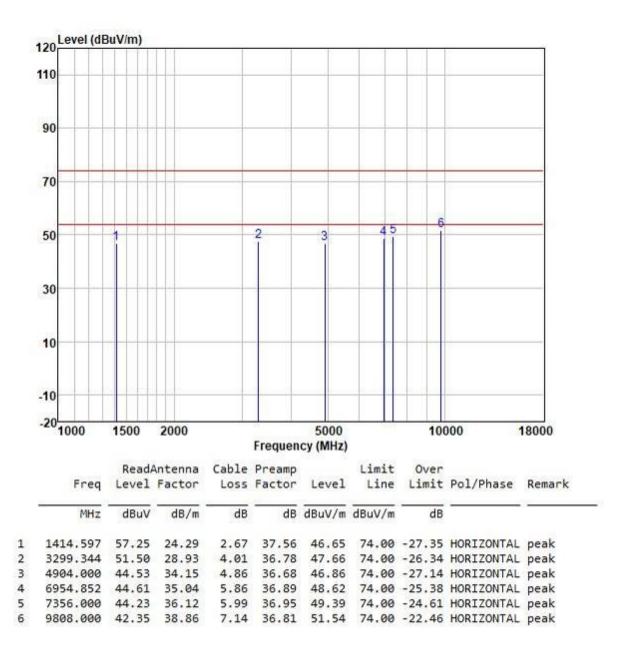


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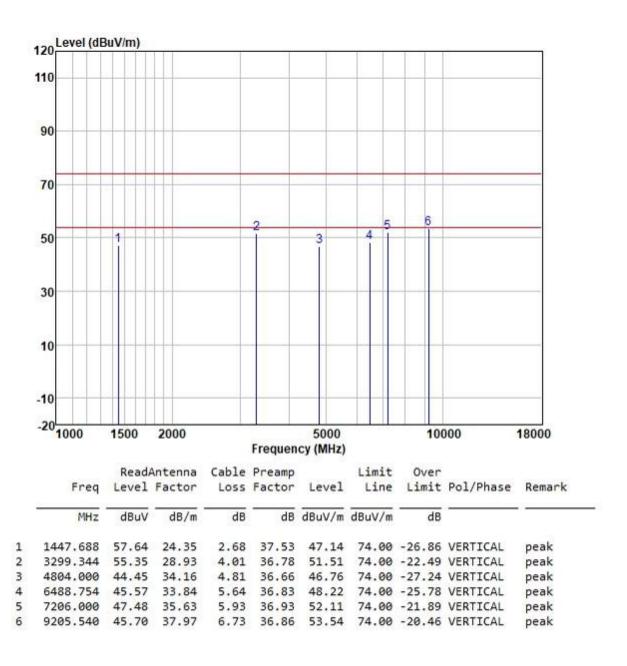
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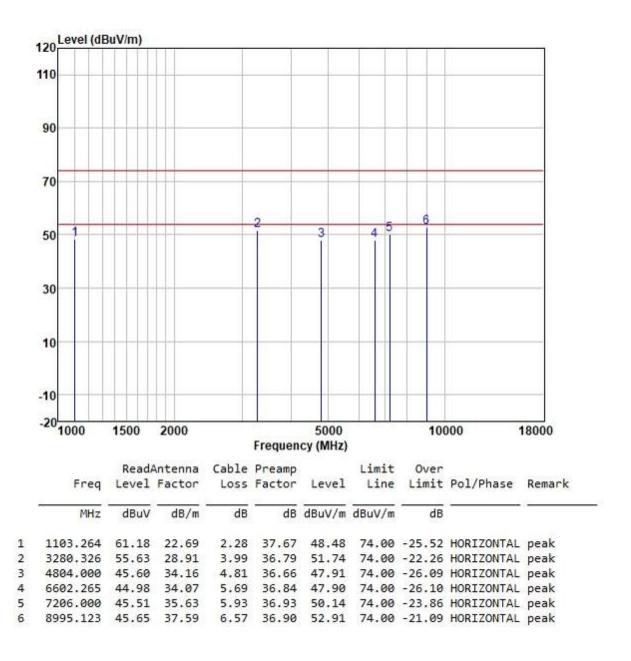
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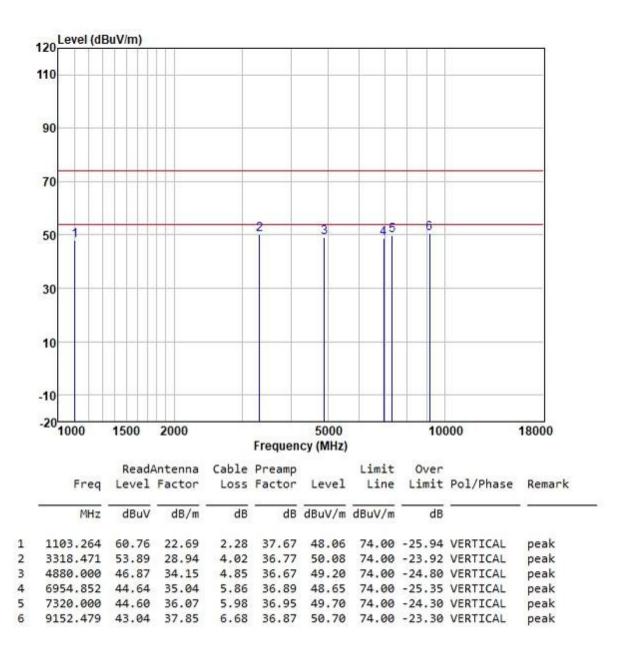
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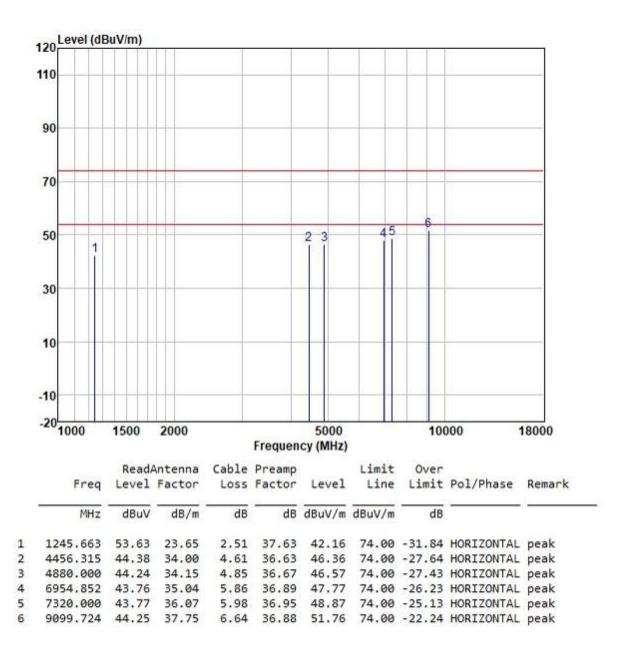
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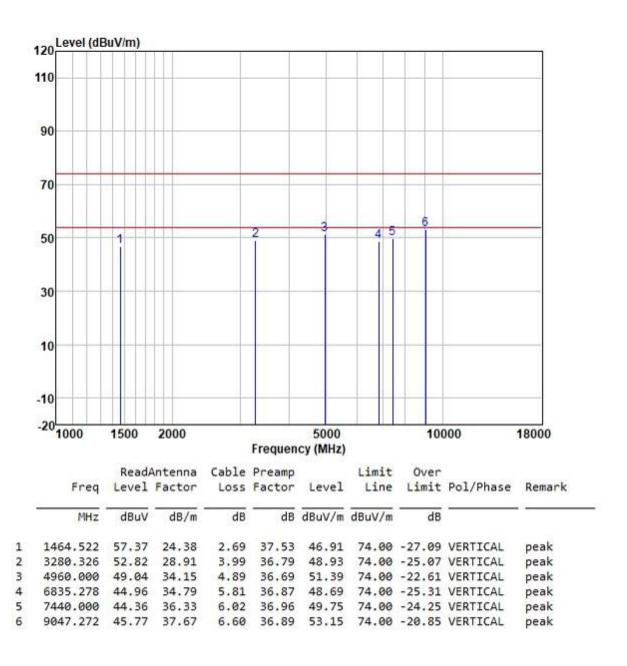
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High





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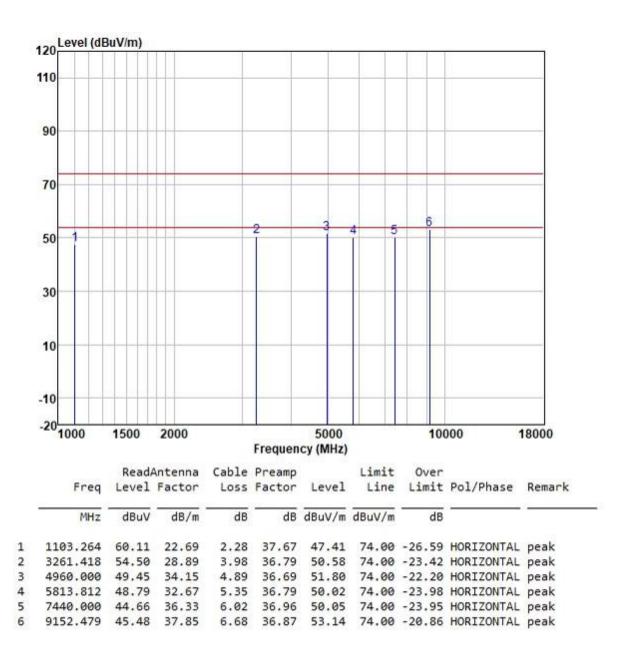
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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High





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7.5 Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

| Frequency range(MHz) | Output power of the intentional radiator(watt) |
|----------------------|--|
| | 1 for ≥50 hopping channels |
| 902-928 | 0.25 for 25≤ hopping channels <50 |
| | 1 for digital modulation |
| | 1 for ≥75 non-overlapping hopping channels |
| 2400-2483.5 | 0.125 for all other frequency hopping systems |
| | 1 for digital modulation |
| 5725-5850 | 1 for frequency hopping systems and digital modulation |

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 75.0 % RH Atmospheric Pressure: 1005 mbar

7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 00 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Final test | 01 | TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Final test | 02 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |



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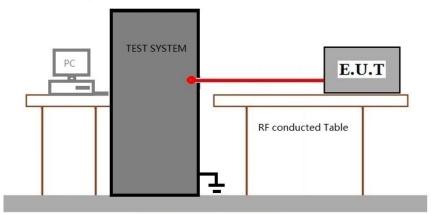
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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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7.6 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2) Test Method: ANSI C63.10 (2013) Section 11.8.1

the report.

≥500 kHz Limit:

Mode

7.6.1 E.U.T. Operation

Pre-scan /

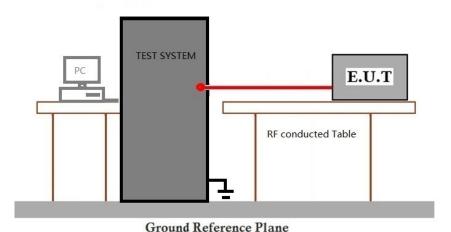
Operating Environment:

Temperature: 22.3 °C Humidity: 75.0 % RH Atmospheric Pressure: 1005 mbar

7.6.2 Test Mode Description

Description Final test Code TX mode(1Mbps) Keep the EUT in continuously transmitting mode with Final test 00 GFSK modulation. TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with Final test 01 GFSK modulation. TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is Final test 02 the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Power Spectrum Density

Test Requirement

47 CFR Part 15, Subpart C 15.247(e)

Test Method:

ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous

transmission

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humic

Humidity: 75.0 % RH

Atmospheric Pressure: 1005 mbar

7.7.2 Test Mode Description

| Pre-scan / | Mode |
|------------|------|
| Final test | Code |

Description

Final test 00

TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with

GFSK modulation.

Final test 01

TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with

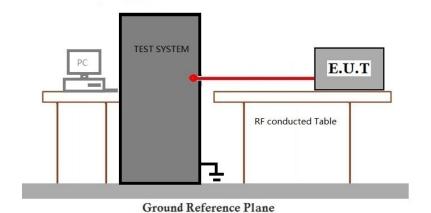
GFSK modulation.

TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is

Final test 02

rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 75.0 % RH Atmospheric Pressure: 1005 mbar

7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 00 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Final test | 01 | TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Final test | 02 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |



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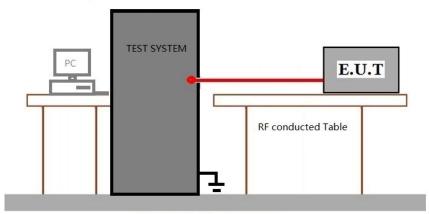
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7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

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7.9 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 75.0 % RH Atmospheric Pressure: 1005 mbar

7.9.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 00 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Final test | 01 | TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Final test | 02 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |



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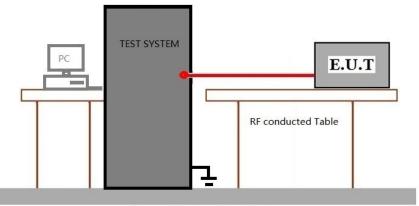
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7.9.3 Test Setup Diagram



Ground Reference Plane

7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Test Setup Photo 8

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EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for GZCR2409001046DS



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